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**Patents** 

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applica	tion of:	)		
	Jacob et al.	)	Group Art Unit:	1646
Serial No.:	10/006,524	)		
Filing Date:	December 3, 2001	)	Atty. Docket No.:	07907.105009
Title:	Animal Model for Flaviviridae Infection	) )	•	

# SUBMISSION OF PCT INTERNATIONAL SEARCH REPORT

U.S. Patent and Trademark Office Box IDS Washington, DC 20231 July 31, 2002

Dear Sir:

In support of prior art filed in the above application, Applicants respectfully submit a copy of the PCT International Search Report for PCT Application No. PCT/US 01/46707. The only reference cited in this Search Report is co-authored by one of the inventors in this application, namely, Bud C. Tennant, and was cited and submitted in the Information Disclosure Statement filed March 22, 2002.

Since this submission cites a reference that was filed prior to a substantive Office Action, the Applicants believe that no additional fees are due. However, if a fee is required, the Commissioner is authorized to charge any requisite fees associated with this paper to Deposit Account 11-0980.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: U.S. Patent and Trademark Office, Box IDS, Washington, D.C. 20231, on July 31, 2002.

Stephanie Adams, Reg. No. 47,378

Serial No. 10/006,524

Please feel free to call the undersigned at 404.572.3404 if an issue can be addressed in a telephone conference.

Respectfully submitted,

Stephanie Adams

Reg. No. 47,378

KING & SPALDING 45<sup>th</sup> Floor, 191 Peachtree Street, N.E. Atlanta, GA 30303 404.572.4600

K&S Docket: 07907.105009

# AUG 0 5 2002 5

## PATENT COOPERATION TREATY

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# From the NIERNATIONAL SEARCHING AUTHORITY

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To:
KING & SPALDING
Attn. Knowles, Sherry M.
191 Peachtree Street
Atlanta, Georgia 30303-1763
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

UNITED STATES OF AMERICA	,				
	Date of mailing (day/month/year) 14/05/2002				
Applicant's or agent's file reference					
07595.105003 07907.105008	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	International filing date				
PCT/US 01/46707	(day/month/year) 03/12/2001				
Applicant					
CORNELL RESEARCH FOUNDATION					
1. X The applicant is hereby notified that the International Search	ch Report has been established and is transmitted herewith.				
Filing of amendments and statement under Article 19:					
The applicant is entitled, if he so wishes, to amend the clai	ims of the International Application (see Rule 46):				
When? The time limit for filing such amendments is norm international Search Report; however, for more of	nally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet.				
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.3	35				
For more detailed instructions, see the notes on the accompanying sheet.					
2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) addit	3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the a	pplicant will be notified as soon as a decision is made				
4. Further action(s): The applicant is reminded of the following					
Shortly after 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3 despectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).					
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.					

Authorized officer

Geertruida Groeneveld-Van der Spek

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2

NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

# What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 ( ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# **`PATENT COOPERATION TREATY**

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report				
07595.105003	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 01/46707	03/12/2001	01/12/2000			
Applicant					
CODNELL DECEMBER FOUNDATT	ON .				
CORNELL RESEARCH FOUNDATION	JIN				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Autransmitted to the International Bureau.	ority and is transmitted to the applicant			
This International Search Report consists  [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.			
Basis of the report					
	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the			
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
<ul> <li>b. With regard to any nucleotide an was carried out on the basis of the</li> </ul>		ternational application, the international search			
	onal application in written form.				
filed together with the inte	rnational application in computer readable form	n.			
furnished subsequently to	this Authority in written form.				
furnished subsequently to	this Authority in computer readble form.				
the statement that the sub international application a	osequently furnished written sequence listing d s filed has been furnished.	oes not go beyond the disclosure in the			
the statement that the info furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been			
2. Certain claims were fou	nd unsearchable (See Box I).				
3. Unity of invention is lac	king (see Box II).				
4. With regard to the title,					
X the text is approved as su	bmitted by the applicant.				
the text has been establis	hed by this Authority to read as follows:				
5. With regard to the abstract,					
	bmitted by the applicant. hed, according to Rule 38.2(b), by this Author date of mailing of this international search re				
6. The figure of the drawings to be publ	ished with the abstract is Figure No.				
as suggested by the appli	cant.	None of the figures.			
because the applicant faile	ed to suggest a figure.				
because this figure better	characterizes the invention.				

## INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/46707

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER G01N33/50						
According to International Patent Classification (IPC) or to both national classification and IPC							
	SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 G01N							
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)					
BIOSIS, MEDLINE, SCISEARCH, CHEM ABS Data, EMBASE, WPI Data, EPO-Internal							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages Relevant to claim No.					
A	MENNE S. ET AL.: "unraveling hep virus in fection of mice and men woodchucks and ducks)"  NATURE MEDICINE, vol. 5, no. 10, - October 1999 (pages 1125-1126, XP002197563 cited in the application the whole document	(and					
Furti	her documents are listed in the continuation of box C.	Patent tamily members are listed in annex.					
<ul> <li>'A' document defining the general state of the art which is not considered to be of particular relevance</li> <li>'E' earlier document but published on or after the international filing date</li> <li>'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>'O' document referring to an oral disclosure, use, exhibition or other means</li> <li>'P' document published prior to the international filing date but later than the priority date claimed</li> <li>Date of the actual completion of the international search</li> </ul>		T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  28 document member of the same patent family					
26 April 2002  Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,		14/05/2002  Authorized officer  Ni emann, F					
	Fax: (+31-70) 340-3016	i i ciiuini, i					